

# HERE HD Live Map

## The most intelligent sensor for autonomous driving

The **HERE HD Live Map** is a cloud-based service comprised of various tiled mapping layers that are highly accurate and continuously updated to support connected ADAS and highly automated driving solutions. The layers are logically structured into Road Model, HD Lane Model, and HD Localization Model. The layers in the Road Model contain road topology, road centerline geometry, and road-level attributes. The HD Lane Model layers contain lane topology data and lane-level attributes. The HD Localization Model includes various features to support localization strategies.

### Intelligent & Precise

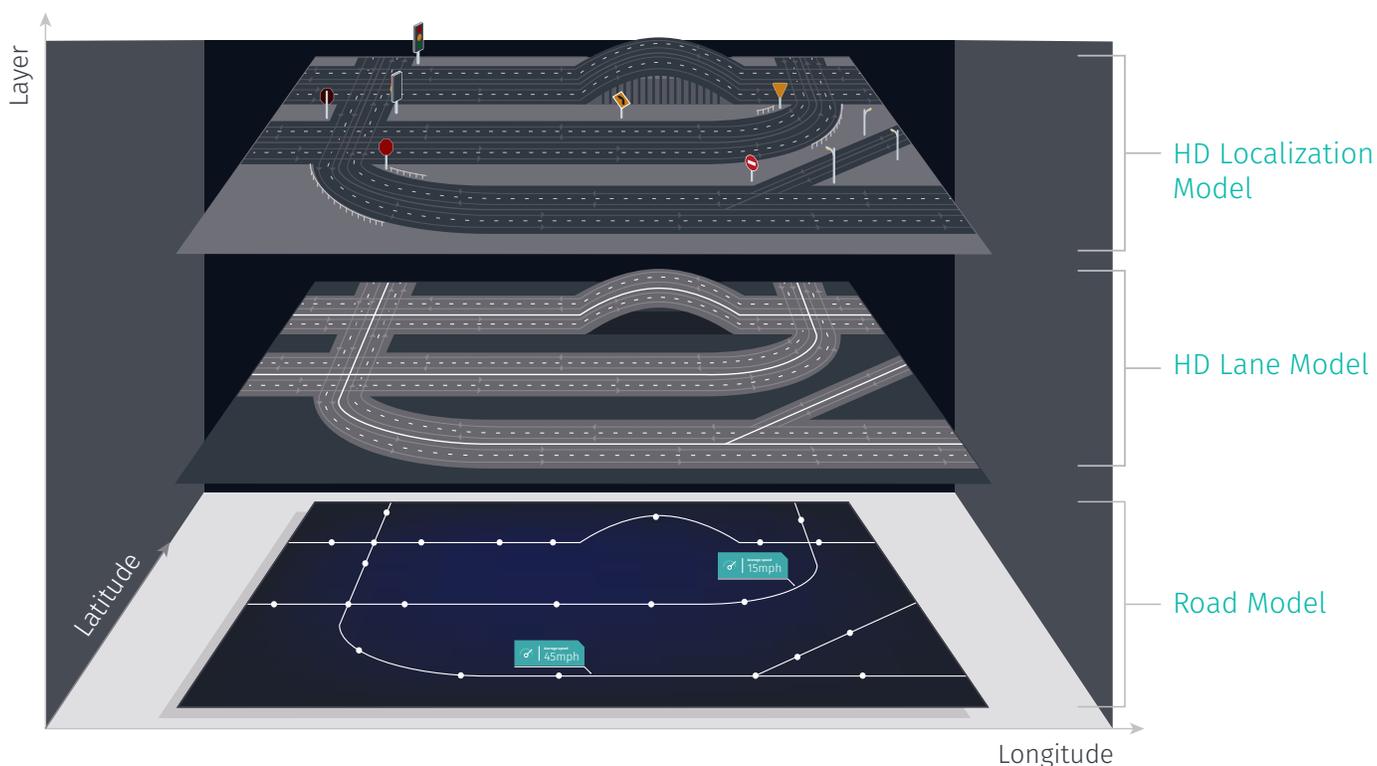
Plan vehicle control maneuvers beyond sensor visibility by providing rich environmental data for precise localization, vehicle strategy planning and domain control.

### Safe & Reliable

Enhance sensor functionality for contextual awareness. Provide more information to HAD systems for engagement and disengagement decisions, supporting safe driver experiences.

### Global & Robust

Use extensive HERE map content to ensure local knowledge of the rules of the road across the globe, including one-way roads, HOV lanes, and speed limits.





The HERE HD Live Map consists of tiled layers providing road and lane topology attribution combined with a flexible localization model.

### Road Model

The Road Model has robust map content at a global scale, providing vehicles with local knowledge that goes beyond the visibility of onboard sensors. The Road Model is based on the HERE navigation “infotainment” map consisting of road topology and numerous ADAS attributes.

### HD Lane Model

The HD Lane Model provides more precise, lane level detail to assist self-driving vehicles in making safe decisions for a comfortable experience. It supports high definition lane topology and geometry, modeled with 3D positions.

### HD Localization Model

The HD Localization Model allows for utilization of multiple different localization approaches, to assist the vehicle in accurately locating itself within the lane it travels. The data includes object level data as well as generic localization data allowing to suit different OEM sensor setups and localization methods.

HERE’s HD Live Map provides OEM’s with the most intelligent, reliable and global solution to ensure the highest confidence in autonomous decision making. We do this by providing, in advance, more transparency about the environment; continuously maintaining the map with fresh, relevant data; and giving OEM’s flexibility in their autonomous driving solutions.

### Quality Index

Receive superior transparency for better, more reliable decision making. The Quality Index provides values representing the predicted quality of the provided HD Live Map data for the vehicle to consider in its HAD system decisions.

### Self-Healing

Increase your customer’s comfort and safety by having fresh, accurate and relevant map data. The HERE self-healing map approach utilizes rich sensor data, emitting from multiple OEM’s connected vehicles, for fast change detection and data updates. The combination of various OEM sensors, and satellite imagery, cross validates data sources and eliminates errors.

### Open & Flexible

Create unique experiences for your customers by leveraging an open and flexible platform. Take advantage of our exclusive services and content, or create custom services and content for your customers through HERE’s Open Location Platform. Tackle localization with a sensor agnostic approach and enjoy flexibility with data management.

### Delivery

HD Live Map is a content service available and updated 24x7. All updates are on tile level and version controlled. The data is published in application consumable ready to use tiles in either Protocol Buffer format or the NDS industry standard format. Access is provided through a REST API.

### Coverage

HERE HD Live Map initially covers North America and Western Europe with ongoing global coverage roll-out.

### About HERE

HERE Technologies, the Open Location Platform company, enables people, enterprises and cities to harness the power of location. By making sense of the world through the lens of location we empower our customers to achieve better outcomes – from helping a city manage its infrastructure or an enterprise optimize its assets to guiding drivers to their destination safely. To learn more about HERE, including our new generation of cloud-based location platform services, visit <http://360.here.com>